

Fig. 1

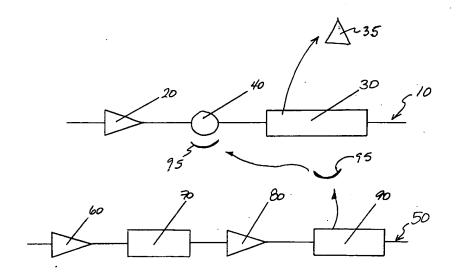


Fig. 2

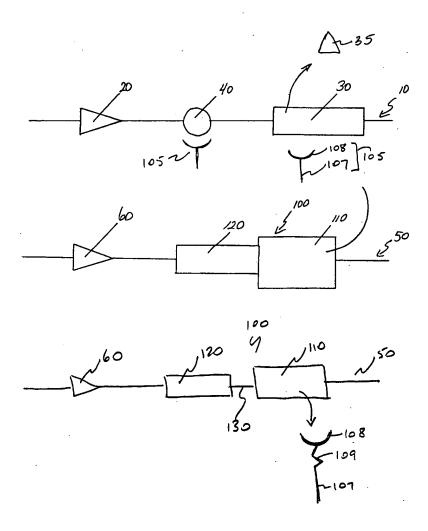


Fig. 3

Fig. 4A

ROS Inverted Repeat
DNA Binding Sites(Operator sequences)

 $\begin{array}{llll} \textbf{TATATTTCAA} - \textbf{TTTTA} - \textbf{TTGTAATATA} & \textit{virC/virD} \\ \textbf{****} & \textbf{**} & \textbf{***} & \textbf{***} & \textbf{**} \\ \textbf{TATAATTAAA} \textbf{ATATTAACTGTCGCATT} & \textit{ipt} \\ \end{array}$

Fig. 4B

Comparison of ROS DNA Binding Site (Operator) Sequences

VirC/VirD TATATTCAA

TATATTACAA

ipt TATAATTAAA

AATGCGACAG

TATAHTtCAA a g gaa g

Consensus WATDHWKMAR

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----ATGACGGAAACTGCATACGGTAACGC ROS GENE
  GCGGATCCCCGGGTATGACTGACACTGCTTACGGTAACGC ROS.SYN.seq
27 CCAGGATCTGCTGGTCGAACTGACGGCGGATATTGTGGCT ROS GENE
41 TCAGGATCTTCTTGTTGAGCTTACTGCTGATATCGTTGCT ROS.SYN.seq
67 GCCTATGTTAGCAACCACGTCGTTCCGGTAACTGAGCTTC ROS GENE
81 GCTTACGTTTCTAACCACGTTGTTCCTGTTACTGAGCTTC ROS.SYN.seq
107 CCGGCCTTATTTCGGATGTTCATACGGCACTCAGCGGAAC ROS GENE
121 CTGGACTTATCTCTGATGTTCATACTGCACTTTCTGGAAC ROS.SYN.seq
147 ATCGGCACCGGCATCGGTGGCGGTCAATGTTGAAAAGCAG ROS GENE
161 ATCTGCTCCTGCTTCTGTTGCTGTTAACGTTGAGAAGCAG ROS.SYN.seq
187 AAGCCTGCTGTGTCGGTTCGCAAGTCGGTTCAGGACGATC ROS GENE
201 AAGCCTGCTGTTCTGTTCGTAAGTCTGTTCAGGATGATC ROS.SYN.seq
227 ATATCGTCTGTTTGGAATGTGGTTGGCTCGTTCAAGTCGCT ROS GENE
241 ATATCGT TTGTTTGGA GTGTGGTGGTTCTTTCAAGTCTCT ROS.SYN.seq
267 CAAACGCCACCTGACGACGCATCACAGCATGACGCCGGAA ROS GENE
281 CAAGCGT CACCTTACT CACTCATCTATGACTCCAGGG ROS.SYN.seq
307 GAATATCGCGAAAAATGGGATCTGCCGGTCGATTATCCGA ROS GENE
321 GAGTATAGAGAGAGTGGGATCTTCCTGTTGATTACCCTA ROS.SYN.seq
347 TGGTTGCTCCCGCCTATGCCGAAGCCCGTTCGCGGCTCGC ROS GENE
387 CAAGGAAAT GGGTCTCGGTCAGCGCCGCAAGGCGAACCGT ROS GENE
401 TAAGGAGAT GGGTCTC GGT CAGCGT CGT AAGG CTAACCGT ROS.SYN.seq
                                              ROS GENE
441 CCAAAAAAAGAAGCGTAAGGTCTGAGAGCTCGC
                                              ROS.SYN.seq
```

Fig. 4C

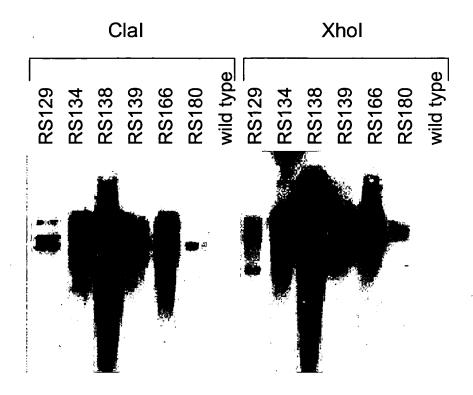


Fig. 4D

p74-101

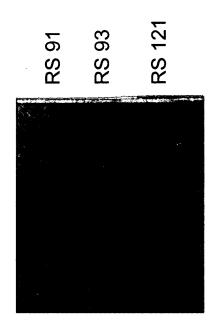
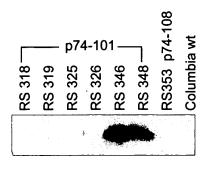
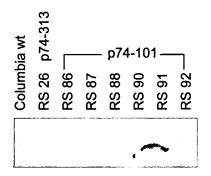


Fig. 4E





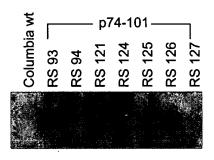


Fig. 4F

Columbia wt

pB1121



p74-501



buffer

Fig. 4G

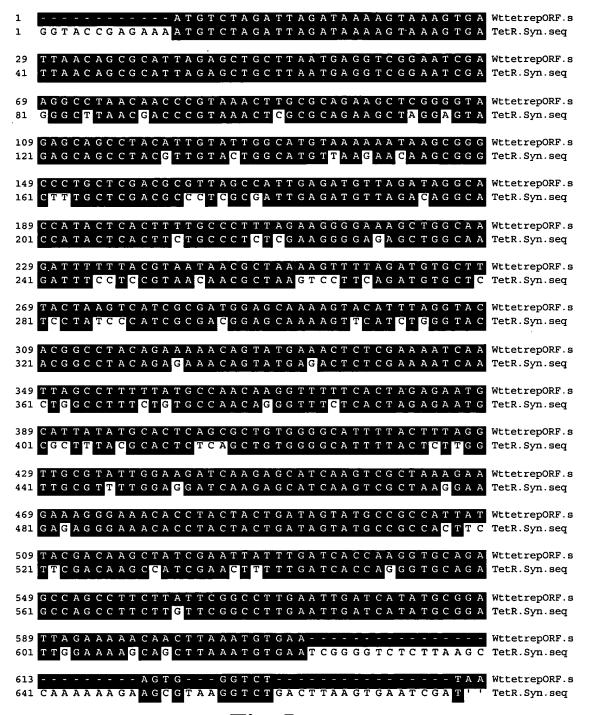


Fig. 5

Wtros	101 PEEYREKWD L P V D Y P M V A P A Y A E A R S R L A K E M G L G Q R R K A N R .	Ä
SynROS	101 PEEYREKWD L P V D Y P M V A P A Y A E A R S R L A K E M G L G Q R R K A N R P K K K R K V .	Ä
		ń
Wtros	1 APASVAVNVEKQKPAVSVRKSVQDDHIVCLECGGSFKSLKRHLTTHHSMT	51
SynROS	1 APASVAVNVEKOKPAVSVRKSVQDDHIVCLECGGSFKSLKRHLTTHHSMT	51
Wtros	MTETAYGNAQDL LV EL TAD IVAA YV SNH VV PV TE LPG LI SD VHT AL SG TS	Н
SynROS	MTETAYGNAQDLLVELTADIVAAYVSNHVVPVTELPGLISDVHTALSGTS SynROS	٦

Fig. 6

syntetR	syntetR	syntetR	syntetR	syntetR
wttetR	wttetR	wttetR	wttetR	wttetR
		Q LAF LC QQ GF SLE NA LYAL SAV GH FT LGC VL ED QE 9 Q LAF LC QQ GF SLE NA LYAL SAV GH FT LGC VL ED QE v	M PPL LR QA IE LFD HQ GA EP AFL FG LE LII CG LE KQ E M PPL LR QA IE LFD HQ GA EP AFL FG LE LII CG LE KQ w	w s
IE GL TTR KLAQ KL GVE QP TL YWH VK NK RA	H F C P L E G E S W Q D F L R N N A K S F R C A L L S H R D G A K V H	OGFSLENALYALSA'	М РРЬ Ь Г К О А І Е Ь Ғ В Н О G А Е Р А Ғ Я	
IE GL TTR KLAQ KL GVE QP TL YWH VK NK RA	H F C P L E G E S W Q D F L R N N A K S F R C A L L S H R D G A K V H	OGFSLENALYALSA'	М РРЬ Ь Ь К О А І Е Ь Ғ В Н О G А Е Р А Ғ Я	
I N S A L E	LDR HHT LDR HHT	Y E T L E N Y E T L E N	TPTTDS	ркккки.
1 MSRLDKSKV.	51 LLDALAIEM	101 LGTRPTEKQ	151 HQVAKEERE	201 LKCESGSLK
	51 LLDALAIEM	101 LGTRPTEKQ	151 HQVAKEERE	201 LKCESGS.

Fig. 7

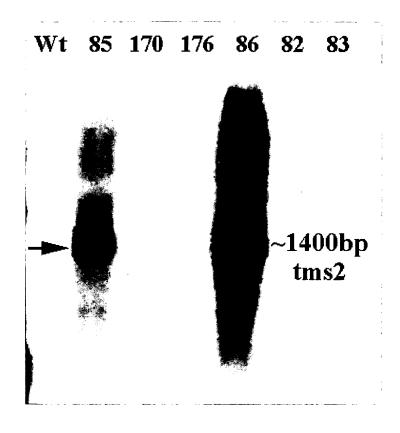


Fig. 8

Repressor Construct



Reporter Constructs

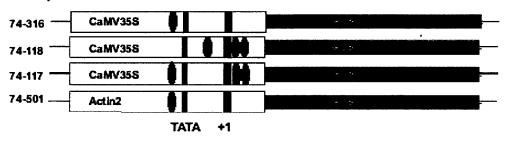
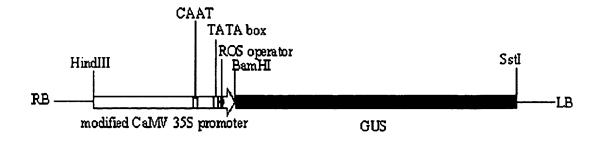


Fig. 9A



p74-315

Fig. 9B

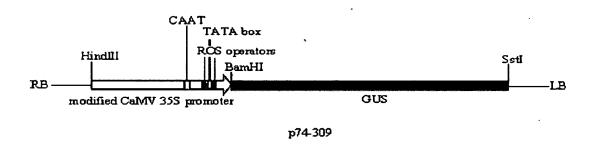


Fig. 9C

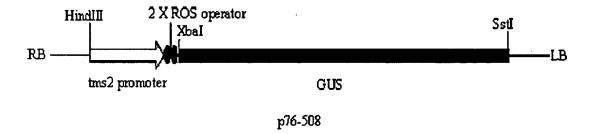


Fig. 9D

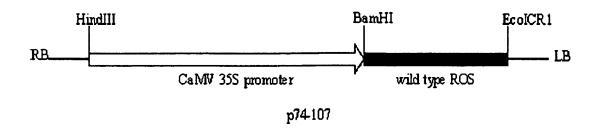


Fig. 9E

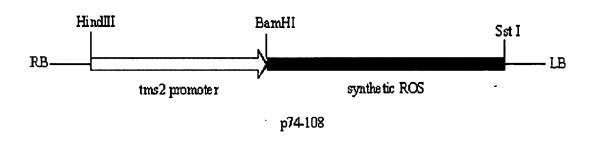


Fig. 9F

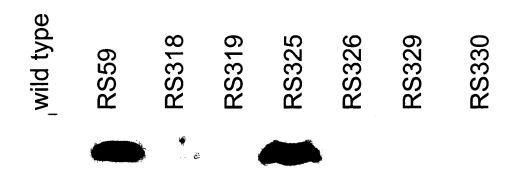


Fig. 10A

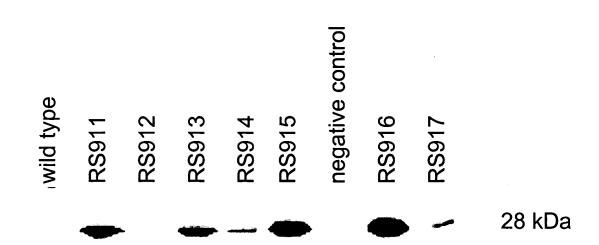


Fig. 10B

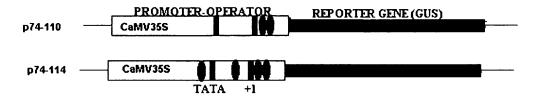
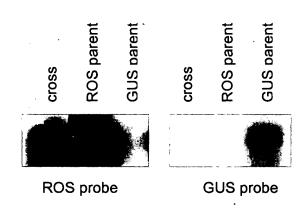


Fig. 11

GUS assay

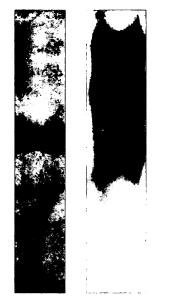
cross ROS parent GUS parent

Fig. 12A



Northern blots

Fig. 12B



GUS probe ROS probe

Southern blot

Fig. 12C



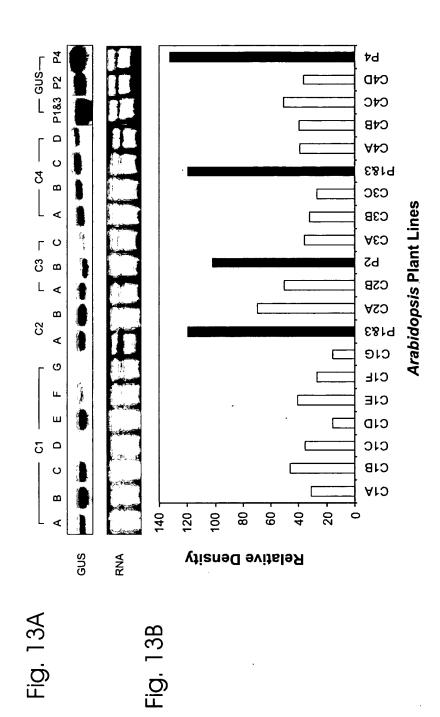


Fig. 14A

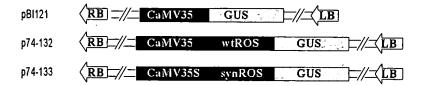
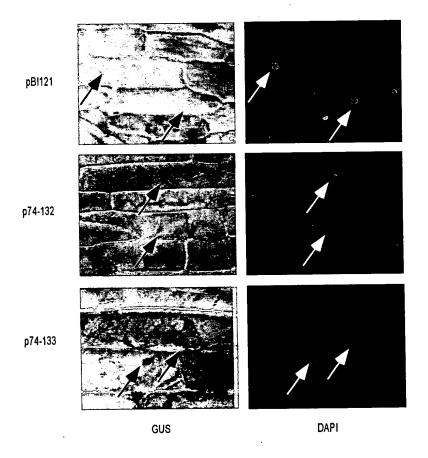


Fig. 14B



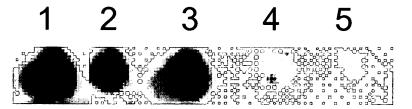


Fig. 15

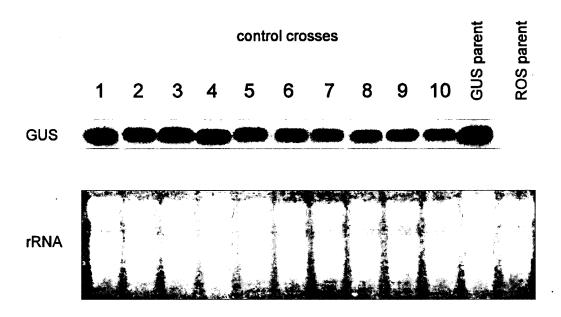


Fig. 16A

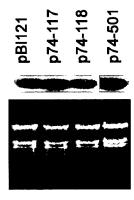


Fig. 16B

